

M17-7ESSA8A8004S - Cable connector



1549165

<https://www.phoenixcontact.com/us/products/1549165>

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M17, Cable connector, application: Data (unshielded), signals, power, series: M17 PRO, straight, shielded: yes, ONECLICK fast locking system, contact connection type: Socket, Crimp connection, cable diameter range: 8.5 mm ... 12.3 mm, coding: Type 2 (based on IEC 61076-2-117)

Your advantages

- ONECLICK fast locking system with an optically, haptically, and acoustically clear locking position
- Easy, cost-effective cable assembly: uniform shielding of M17 to M40
- Crimping connection: vibration- and temperature-resistant assembly
- All housing can be fitted with pin or socket contacts
- Safe use in the field, thanks to high degree of protection

Commercial data

Item number	1549165
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	AB30
Product key	ABRCAB
GTIN	4067923024441
Weight per piece (including packing)	86.6 g
Weight per piece (excluding packing)	86.6 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Order crimp contacts separately
Safety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property. • WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible. • WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product. • The products are suitable for applications in plant, controller, and electrical device engineering. • When operating the connectors in outdoor applications, they must be separately protected against environmental influences. • Assembled products may not be manipulated or improperly opened. • Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products). • When using the product in direct connection with third-party manufacturers, the user is responsible. • For operating voltages > 50 V AC, conductive connector housings must be grounded • Ensure that the protective or functional ground has been properly connected. • VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector • Only use tools recommended by Phoenix Contact • The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product. • Operate the connector only when it is fully plugged in and interlocked. • Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards. • Observe the minimum bending radius of the cable. Lay the cable without twisting it. • The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting

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1549165

<https://www.phoenixcontact.com/us/products/1549165>

warnings (e.g. DIN EN ISO 13732-1:2008-12).

Product properties

Product type	Circular connector (cable-side)
Product family	M17 PRO HYBRID
Series	M17 PRO

Material specifications

Flammability rating according to UL 94	V0
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Connector

Insulating body

Note	Order information: Order crimp contacts separately. The contact assignment can be found in the installation notes.
Coding	Type 2 (based on IEC 61076-2-117)
Material (Insulating body)	PA 6.6
Flammability rating according to UL 94	V0
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Socket
Application	Data (unshielded), signals, power
Number of positions	12
Installation height	3000 m
Number (Power contacts)	4
Contact diameter (Power contacts)	1 mm
Litz wires Min. cross section (Power contacts)	0.06 mm ²
Litz wires Max. cross section (Power contacts)	1.5 mm ²
Rated current Contact (Power contacts)	16 A (for max. connection cross section)
Rated voltage Contact (Power contacts)	630 V AC (Overvoltage category III/3) 850 V DC (Overvoltage category II/3)
Rated surge voltage	6 kV
Overvoltage category	III
Number (Data contacts)	4
Contact diameter (Data contacts)	0.6 mm
Litz wires Max. cross section (Data contacts)	0.34 mm ²
Rated current Contact (Data contacts)	3.6 A (for max. connection cross section)
Rated voltage Contact (Data contacts)	50 V
Rated surge voltage	0.8 kV
Overvoltage category	III
Degree of pollution	3
Number (Signal contact group 1)	2
Contact diameter (Signal contact group 1)	1 mm
Litz wires Max. cross section (Signal contact group 1)	0.75 mm ²
Rated current Contact (Signal contact group 1)	11 A (for max. connection cross section)

M17-7ESSA8A8004S - Cable connector



1549165

<https://www.phoenixcontact.com/us/products/1549165>

Rated voltage Contact (Signal contact group 1)	50 V
Rated surge voltage	0.8 kV
Overvoltage category	III
Degree of pollution	3

Housing

Type	Cable connector housing
Thread type	M17
Design	straight
Type of locking	ONECLICK fast locking system
Pg screw connection	none
Material (Housing)	GD-Zn
Degree of protection (plugged in)	IP67
	IP68 (2 m / 24 h)

Seal

External cable diameter	8.5 mm ... 12.3 mm
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Standards and regulations

Standard designation	M17 Hybrid
Standards/specifications	based on IEC 61076-2-117

M17-7ESSA8A8004S - Cable connector

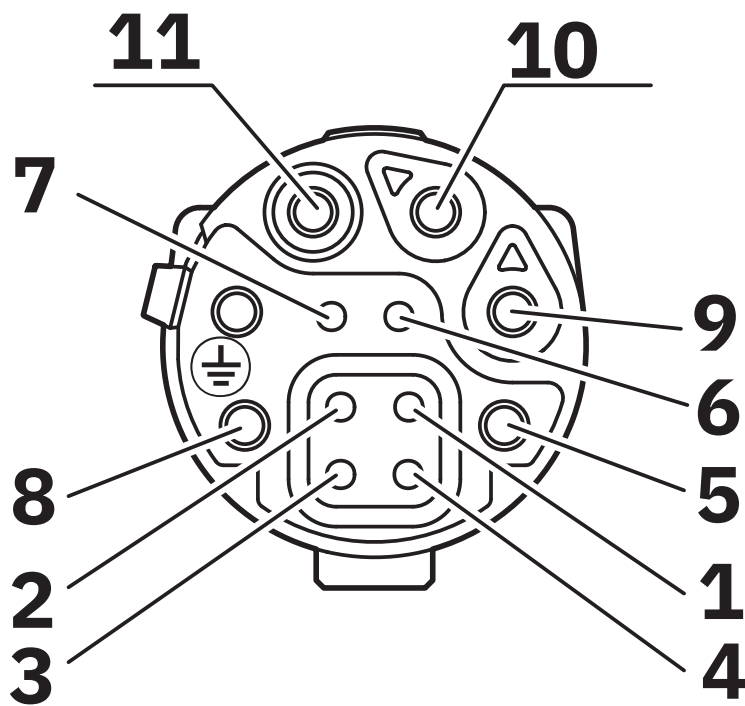
1549165

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Drawings

Schematic diagram

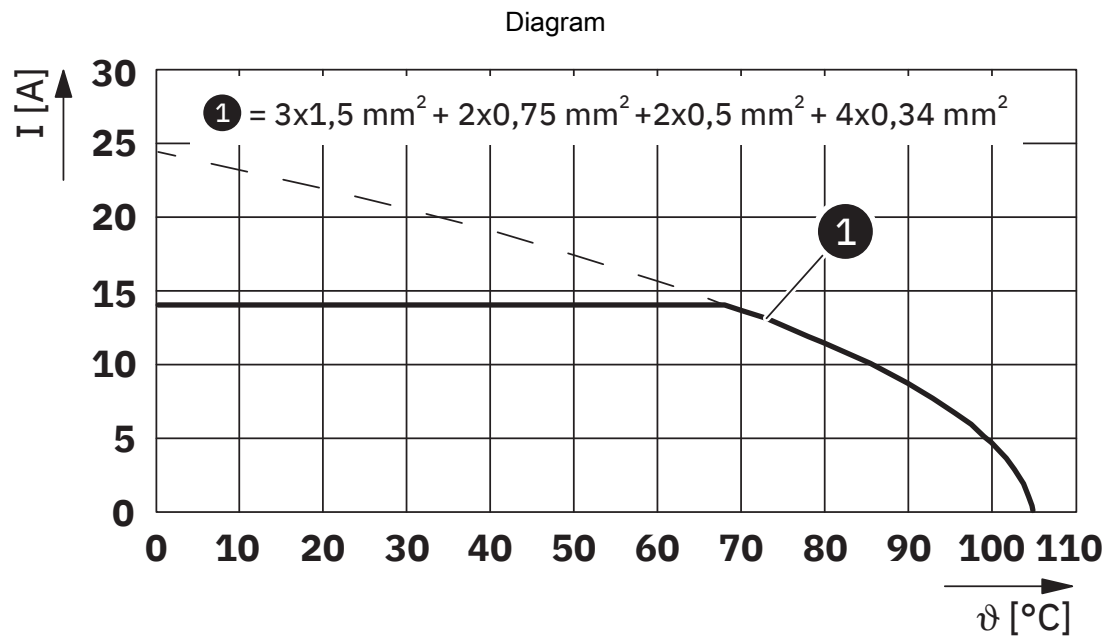


Socket pin assignment

M17-7ESSA8A8004S - Cable connector

1549165

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I = current strength, ϑ = ambient temperature, $3 \times 14 \text{ A} + 4 \times 2 \text{ A constant} + 4 \times 0.1 \text{ A constant}$

M17-7ESSA8A8004S - Cable connector



1549165

<https://www.phoenixcontact.com/us/products/1549165>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1549165>

 UL Listed Approval ID: E468743				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	14 A	- 16	-
Signal	50 V	2 A	20 - 19	-
Data	50 V	0.1 A	- 22	-

 cUL Listed Approval ID: E468743				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
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Power	600 V	12 A	- 16	-
Signal	50 V	2 A	20 - 19	-
Data	50 V	0.1 A	- 22	-

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Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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